



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

PRELIMINARY ISSUE

650.6410  
Job Sheet 212646



Part No: 650.6410

Job Qty: 5 pcs

Part Name: Safety Disc Retainer 6k



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 8/28/20

Job Tracking No:

Due Date: 9/4/20

Created By: Jennifer Renwick

Type: SOLD

Description:

Note: 650.6400 REV.PB1 IPP REV:A 20.06.24 NEW ISSUE DD VERF;JFS

Ship Via:

PRIORITY

139 Valve

### Bill of Materials

### Job Routing

| Op No | Operation  | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off        |
|-------|------------|-------|------------|----------|-----------|---------|-----------------------|-----------|-----------------|
|       |            |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |                 |
| 100   | SL-154 - 1 | 5 pcs | 9/4/20     |          | 1.00      | 1.67    | Doosan - 1            |           |                 |
|       |            |       |            |          |           |         | NLX 2500SY - 1        |           |                 |
|       |            |       |            |          |           |         | SL-154 - 1            |           | DAS 33 20/08/31 |
|       |            |       |            |          |           |         | SL-2500Y - 1          |           | 9-89            |
| 110   | QC 2       | 5 pcs | 9/4/20     |          | 0.00      | 0.00    | QC 2 - 1              |           |                 |
|       |            |       |            |          |           |         | QC 2 - 12             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 14             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 17             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 19             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 2              |           |                 |
|       |            |       |            |          |           |         | QC 2 - 20             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 22             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 23             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 25             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 32             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 33             |           | DAS 33 20/08/31 |
|       |            |       |            |          |           |         | QC 2 - 35             |           | 9-89            |
|       |            |       |            |          |           |         | QC 2 - 39             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 4              |           |                 |
|       |            |       |            |          |           |         | QC 2 - 40             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 44             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 45             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 48             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 49             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 50             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 51             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 52             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 57             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 62             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 63             |           |                 |
|       |            |       |            |          |           |         | QC 2 - 8              |           |                 |



Container No: S297496



Part: 650.6410

Job No: 212646

Serial No/Batch: S297496

Revision: REV.PB1

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.  
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CANADA  
TEL: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Date: 08/31/20



|     |                               |       |        |           |                        |
|-----|-------------------------------|-------|--------|-----------|------------------------|
|     |                               |       |        | QC 2 - 66 |                        |
|     |                               |       |        | QC 2 - 64 |                        |
|     |                               |       |        | QC 2 - 65 |                        |
|     |                               |       |        | QC 2 - 5  |                        |
|     |                               |       |        | QC 2 - 71 |                        |
|     |                               |       |        | QC 2 - 73 |                        |
|     |                               |       |        | QC 2 - 69 |                        |
|     |                               |       |        | QC 2 - 76 |                        |
|     |                               |       |        | QC 2 - 86 |                        |
|     |                               |       |        | QC 2 - 83 |                        |
| 120 | QC 8                          | 5 pcs | 9/4/20 | 0.00 0.00 | QC 8 - 12              |
|     |                               |       |        |           | QC 8 - 14              |
|     |                               |       |        |           | QC 8 - 17              |
|     |                               |       |        |           | QC 8 - 20              |
|     |                               |       |        |           | QC 8 - 25              |
|     |                               |       |        |           | QC 8 - 3               |
|     |                               |       |        |           | QC 8 - 32              |
|     |                               |       |        |           | QC 8 - 33              |
|     |                               |       |        |           | QC 8 - 35              |
|     |                               |       |        |           | QC 8 - 39              |
|     |                               |       |        |           | QC 8 - 4               |
|     |                               |       |        |           | QC 8 - 44              |
|     |                               |       |        |           | QC 8 - 45              |
|     |                               |       |        |           | QC 8 - 49              |
|     |                               |       |        |           | QC 8 - 58              |
|     |                               |       |        |           | QC 8 - 8               |
|     |                               |       |        |           | QC 8 - 9               |
|     |                               |       |        |           | QC 8 - 68              |
|     |                               |       |        |           | QC 8 - 67              |
|     |                               |       |        |           | QC 8 - 1 (A)           |
|     |                               |       |        |           | QC 8 - 47              |
|     |                               |       |        |           | QC 8 - 40              |
|     |                               |       |        |           | QC 8 - 52              |
|     |                               |       |        |           | QC 8 - 23              |
|     |                               |       |        |           | QC 8 - 57              |
|     |                               |       |        |           | QC 8 - 76              |
|     |                               |       |        |           | QC 8 - 61              |
|     |                               |       |        |           | QC 8 - 66              |
|     |                               |       |        |           | QC 8 - 73              |
|     |                               |       |        |           | QC 8 - 82              |
| 130 | Outsource - 17 - Passivate    | 5 pcs | 9/4/20 | 0.00 0.00 | GR0002                 |
| 140 | Packaging 2-1 - Receive - B4B | 5 pcs | 9/4/20 | 0.00 0.00 | Packaging 2 - 1 - B4B  |
|     |                               |       |        |           | Packaging 2 - 2 - B4B  |
|     |                               |       |        |           | Packaging 2 - 3 - B4B  |
|     |                               |       |        |           | Packaging 2 - 5 - B4B  |
|     |                               |       |        |           | Packaging 2 - 4 - B4B  |
|     |                               |       |        |           | Packaging 2 - 6 - B4B  |
|     |                               |       |        |           | Packaging 2 - 7 - B4B  |
|     |                               |       |        |           | Packaging 2 - 8 - B4B  |
|     |                               |       |        |           | Packaging 2 - 9 - B4B  |
|     |                               |       |        |           | Packaging 2 - 10 - B4B |
|     |                               |       |        |           | Packaging 2 - 11 - B4B |
|     |                               |       |        |           | Packaging 2 - 12 - B4B |
|     |                               |       |        |           | Packaging 2 - 13 - B4B |
|     |                               |       |        |           | Packaging 2 - 14 - B4B |
|     |                               |       |        |           | Packaging 2 - 15 - B4B |
|     |                               |       |        |           | Packaging 2 - 16 - B4B |
|     |                               |       |        |           | Packaging 2 - 17 - B4B |
|     |                               |       |        |           | Packaging 2 - 18 - B4B |

7/20/08/31

SEP 01 2020

SEP 10 2020



|                                 |         |        |           |                         |                 |
|---------------------------------|---------|--------|-----------|-------------------------|-----------------|
| 150 QC 6                        | 5 pcs   | 9/4/20 | 0.00 0.00 | Packaging 2 - 19 - B4B  |                 |
|                                 |         |        |           | Packaging 2 - 20 - B4B  |                 |
|                                 |         |        |           | Packaging 2 - 21 - B4B  |                 |
|                                 |         |        |           | Packaging 2 - 22 - B4B  |                 |
|                                 |         |        |           | Packaging 2 - 23 - B4B  |                 |
|                                 |         |        |           | Packaging 2 - 24 - B4B  |                 |
|                                 |         |        |           | Packaging 2 - 25 - B4B  |                 |
|                                 |         |        |           | Packaging 2 - 26 - B4B  |                 |
|                                 |         |        |           | Packaging 2 - 37 - B4B  |                 |
|                                 |         |        |           | QC 6 - 9                |                 |
|                                 |         |        |           | QC 6 - 68               |                 |
|                                 |         |        |           | QC 6 - 61               |                 |
|                                 |         |        |           | QC 6 - 40               | DAS             |
|                                 |         |        |           | QC 6 - 81               | 82              |
|                                 |         |        |           | QC 6 - 82               | 9-89            |
| 160 Packaging 3-1 - Stock - B4B | 5 pcs ✓ | 9/4/20 | 0.00 0.00 |                         | SEP 10 2020     |
|                                 |         |        |           | Packaging 3 - 1 - B4B   |                 |
|                                 |         |        |           | Packaging 3 - 2 - B4B   | SEP 14 2020 DAS |
|                                 |         |        |           | Packaging 3 - 3 - B4B ✓ | SEP 4 1 2020 80 |
|                                 |         |        |           | Packaging 3 - 4 - B4B   | GA-T&D 9-89     |
|                                 |         |        |           | Packaging 3 - 5 - B4B   | SEP 4 2020      |
|                                 |         |        |           | Packaging 3 - 6 - B4B   |                 |
|                                 |         |        |           | Packaging 3 - 7 - B4B   |                 |
|                                 |         |        |           | Packaging 3 - 8 - B4B   |                 |
|                                 |         |        |           | Packaging 3 - 9 - B4B   |                 |
|                                 |         |        |           | Packaging 3 - 10 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 11 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 12 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 13 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 14 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 15 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 16 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 17 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 18 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 19 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 20 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 21 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 22 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 23 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 24 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 25 - B4B  |                 |
|                                 |         |        |           | Packaging 3 - 26 - B4B  | DAS             |
|                                 |         |        |           | Packaging 3 - 37 - B4B  | 21              |
| 170 QC 21 - SA                  | 5 pcs   | 9/4/20 | 0.00 0.00 | QC 21 - SA - 21         | 9-89            |
|                                 |         |        |           | QC 21 - SA - 70         |                 |
|                                 |         |        |           | QC 21 - SA - 9          | SEP 14 2020     |

Part Op 100 - \*\*\*\*CRITICAL PART - EXTREME CARE MUST BE TAKEN\*\*\*\* MUST ENSURE THE COMPONENTS ARE  
 Descriptions: NEVER DAMAGE\*\*\*\* 1-Machine as per folio F FOLIO REV: \_\_\_\_\_ DWG REV: \_\_\_\_\_ 2-Deburr

110 - QC2- Inspect parts off machine FAI/FAIB

120 - QC8- Inspect parts - second check

130 - Issue P/O; 47005 PASSIVATE IAW QQ-P-35C, TYPE II -Material type; 303 stainless steel -Certificate of Conformity is required

140 - Certificate of Conformity is required

150 - QC6- All purchased or subcontracted products

160 - Identify as per dwg & Stock \*\*\*\*CRITICAL PART - EXTREME CARE MUST BE TAKEN\*\*\*\* MUST ENSURE THE COMPONENTS ARE NEVER DAMAGE\*\*\*\*

170 - QC21- Final Inspection - Work Order Release

### Job BOM

| Part / Item | Component Name      | Quantity            | Operation      | Container |
|-------------|---------------------|---------------------|----------------|-----------|
| M303R0.750  | 303 Round Bar 0.750 | .3125 ft (.0625 ea) | 100-SL-154 - 1 | 5290247   |

| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 100-SL-154 - 1                     | M303R0.750     | 0        | 17        | 0         |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

Plex 8/28/20 8:34 AM Dart.Renwick.Jennifer



Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                      |  |                        |  |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sequence #: _____                                                                                                                 | QTY Affected : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex;"> <div style="flex: 1;">           Operator <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Preservation <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Human Factors <input type="checkbox"/> </div> <div style="flex: 1;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex;"> <div style="flex: 1;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="flex: 1;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="flex: 1;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                        |  |



SHOP COPY  
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ENGINEERING

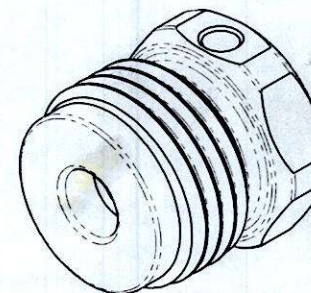
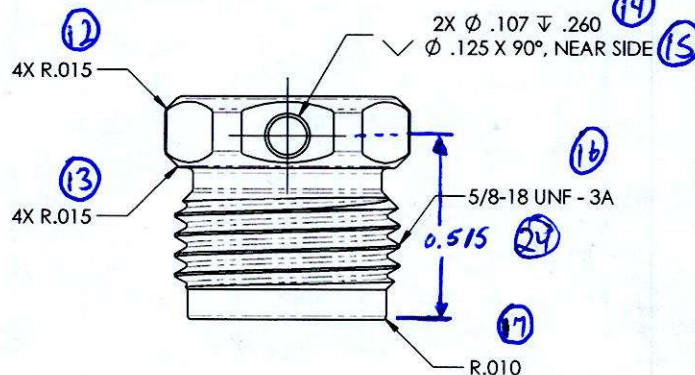
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 212646

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NOTES:

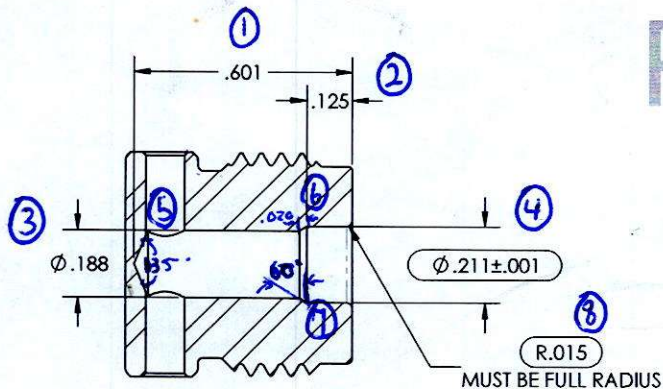
- 1 MATERIAL: 303 SS IAW AMS-5640 (26)
- 2 DEBURR AND BREAK ALL SHARP EDGES
- 3 IDENTIFY IAW MPP-120
- 4 FINISH 125/ MAX UNLESS OTHERWISE SPECIFIED (25)
- 5 FINISH: PASSIVATE IAW MPP-172 SECTION 6.1. (27)

PB1

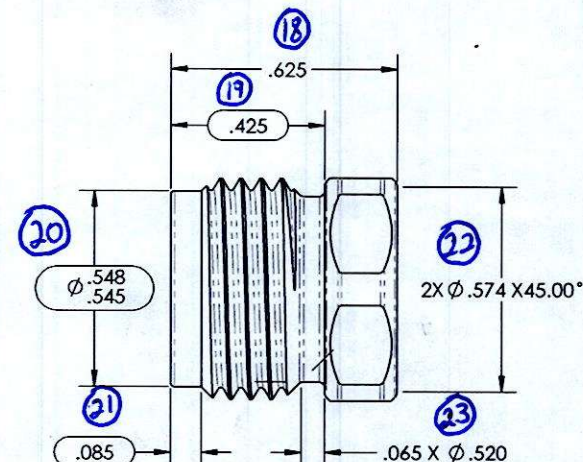
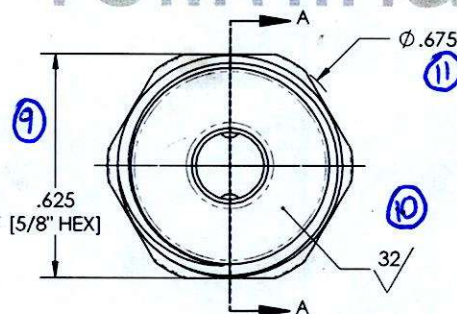


650.6410

Preliminary



SECTION A-A



| PROTOTYPE REVISIONS |     |                                              |          |          |             |             |
|---------------------|-----|----------------------------------------------|----------|----------|-------------|-------------|
| ZONE                | REV | DESCRIPTION                                  | DATE     | APPROVED | CHANGE CODE | EFFECTIVITY |
| B1-1                | PB1 | REVISED NOTE 5. REMOVED ELECTROPOLISH FINISH | 20/06/24 | T. CROSS | MDI         | NEXT ORDER  |

|               |  |                          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|               |  | 1                        | 650.6410 | SAFETY DISC RETAINER (6k)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|               |  | FIND NO.                 | PART NO. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| NEXT ASSY (S) |  | ORIGINAL DATE (MM-DD-YY) |          | 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|                                             |  |                               |
|---------------------------------------------|--|-------------------------------|
| <b>DART AEROSPACE LTD</b>                   |  | <b>Work Order:</b> 212646     |
| <b>Description:</b> SAFETY DISK RETAINER 6K |  | <b>Part Number:</b> 650, 6410 |
| <b>Inspection Dwg:</b> 650, 6400 Rev: PB1   |  | <b>Page 1 of 1</b>            |

### INSPECTION SHEET

|    | Drawing Dimension | Tolerance         | Actual Dimension | Accept | Reject | Method of Inspection | Comments         |
|----|-------------------|-------------------|------------------|--------|--------|----------------------|------------------|
| ①  | 0,601             | ± 0,005           | 0,596            | ✓      |        | ML-05                | Depth gauge      |
| ②  | 0,125             | ± 0,005           | 0,125            | ✓      |        | MJP-04               | vern / gauge pin |
| ③  | 0,188             | ± 0,005           | 0,190            | ✓      |        |                      | pin gauge        |
| ④  | 0,211             | ± 0,001           | 0,2113           | ✓      |        |                      | pin gauge        |
| ⑤  | 135°              | ± 0,5°            | 135°             | ✓      |        | MJP-04               | vern             |
| ⑥  | 0,020             | ± 0,005           | 0,020            | ✓      |        | ...                  | ...              |
| ⑦  | 60°               | ± 0,5°            | 60°              | ✓      |        | ...                  | ...              |
| ⑧  | R 0,015           | ± 0,005           | 0,015            | ✓      |        |                      | comparator optic |
| ⑨  | 0,625             | ± 0,005           | 0,627            | ✓      |        | MJP-04               | vern             |
| ⑩  | 32/               | ±                 | 13/              | ✓      |        |                      | surface gauge    |
| ⑪  | 0,675             | ± 0,005           | 0,675            | ✓      |        | MJP-04               | vern             |
| ⑫  | R 0,015           | ± 0,005           | 0,015            | ✓      |        |                      | comparator optic |
| ⑬  | R 0,015           | ± 0,005           | 0,015            | ✓      |        | ...                  | ...              |
| ⑭  | 0,107 / 0,260     | ± 0,005 / ± 0,005 | 0,107 / 0,260    | ✓      |        | MJP-04               | vern             |
| ⑮  | 0,125 x 90°       | ± 0,005 ± 0,5°    | 0,128 x 90°      | ✓      |        | ...                  | ...              |
| ⑯  | 5/8-18 UNF-3A     | ±                 | 5/8-18 UNF-3A    | ✓      |        | JB-09                | Digital Mic      |
| ⑰  | R 0,010           | ± 0,005           | 0,010            | ✓      |        |                      | comparator optic |
| ⑱  | 0,625             | ± 0,005           | 0,624            | ✓      |        | MJP-04               | vern             |
| ⑲  | 0,425             | ± 0,005           | 0,425            | ✓      |        | ...                  | ...              |
| ⑳  | 0,545 / 0,548     | ±                 | 0,5465           | ✓      |        | JB-09                | Digital Mic      |
| ㉑  | 0,085             | ± 0,005           | 0,085            | ✓      |        | MJP-04               | vern             |
| ㉒  | 0,574 x 45°       | ± 0,005 ± 0,5°    | 0,574 x 45°      | ✓      |        | ...                  | ...              |
| ㉓  | 0,065 / 0,520     | ± 0,005 / ± 0,005 | 0,065 / 0,518    | ✓      |        | ...                  | ...              |
| ㉔  | 0,515             | ± 0,005           | 0,514            | ✓      |        | ...                  | ...              |
| 25 | 17.1              |                   | 17.1             | ✓      |        | S.R.T                |                  |
| 26 | 303 SS            |                   |                  | ✓      | 303SS  | AS82                 | ACCEPTED PER     |
|    | AMS-5640          |                   |                  |        |        | ENG. DEVIATION.      | PONB046739       |
|    |                   |                   |                  |        |        |                      | HITCH-10304      |
| 27 | PASSIVATED        |                   |                  | ✓      |        | C6FC ALTECH          | PONB047005       |

|                        |                                |                                  |
|------------------------|--------------------------------|----------------------------------|
| <b>Measured by:</b> 33 | <b>Checked by:</b> [Signature] | <b>QC Inspector:</b> [Signature] |
| <b>Date:</b> 20/08/31  | <b>Date:</b> 20/08/31          | <b>Date:</b> SEP 11 2020         |

|                                                |              |
|------------------------------------------------|--------------|
| <b>Engineering Approval:</b><br>(If necessary) | <b>Date:</b> |
|------------------------------------------------|--------------|

| Rev | Date     | Change    | Revised by | Approved |
|-----|----------|-----------|------------|----------|
| B   | 14.07.31 | New Issue | KJ         |          |





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB047005



**Supplier:** GRO002-VC  
Group Altech  
2455 Halpern  
St Laurent  
QC  
H4S 1N9 Canada  
Phone: 514-335-3666  
Fax: 514-335-3868

**Attention:** Grenon, Sylvie

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** POHB047005

**PO Date:** 9/2/20

**Due Date:** 9/10/20

**Purchase Order  
Revision:**

**Revision Date:**

**Issued By:** Guerin, Kimberley  
Phone: 613-632-5200 Ext: 298  
kguerin@dartaero.com

**Via:** Ground

**Pymt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

**E-MAILED**  
2020-09-03

### Items

| Line Item    | Job    | Part     | Drawing          | Description                                                                                                                                                               | Status       | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|--------------|--------|----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| 1            | 212646 | 650.6410 | 650.6400 REV.PB1 | Safety Disc Retainer 6k<br>-Issue P/O;<br><br>PASSIVATE<br>IAW QQ-P-35C, TYPE II<br><br>-Material type; 303 stainless steel<br><br>-Certificate of Conformity is required | Firmed<br>X5 | -       | 9/10/20  | 5 pcs          | 0 pcs             | 5 pcs   | \$30.00/pcs      | \$150.00       |
| Grand Total: |        |          |                  |                                                                                                                                                                           |              |         |          |                |                   |         |                  | \$150.00       |

DAS  
82  
9-89

SEP 10 2020

*KGuerin*





Dart Aerospace Ltd.  
1270 Aberdeen St.  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB047005



### Order Notes

#### Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)

A022 Apical Processing  
A024 process certifications  
A026 certification of material conformance

A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Please ensure to send the related invoice to [hby\\_ap@dartaero.com](mailto:hby_ap@dartaero.com).

Plex 9/2/20 10:50 AM Dart.Guerin.Kimberley



# Certificat de Conformité / Certificate of Compliance

(030718-1)

2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9  
 Tel: 514-335-3666 Fax: 514-335-3868  
 www.groupaltech.com

## Bon de Livraison / Packing Slip

**030718-1**

Livré à / Ship to

**DART AEROSPACE LTD**  
 1270 ABERDEEN STREET  
 HAWKESBURY, ON, K6A1K7  
 CANADA  
 Tel.: 613-632-5200 Fax.:

Client / Customer:

**DART AEROSPACE LTD**  
 1270 ABERDEEN STREET  
 HAWKESBURY, ON, K6A1K7  
 CANADA  
 BUYER:

|                              |                                                                           |                                                                                                                                                               |  |                                                |                            |                                                       |                 |                   |               |                         |
|------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------|----------------------------|-------------------------------------------------------|-----------------|-------------------|---------------|-------------------------|
| Date expédition<br>Ship date |                                                                           | Créé Par<br>Generated By                                                                                                                                      |  | Transport / No de Compte<br>Courier / Acc. No. |                            | Bon de commande Client<br>Customer Purchase Order No. |                 |                   |               |                         |
| 08-Sep-2020                  |                                                                           | SPARTAKOS BOUNTOURIS                                                                                                                                          |  |                                                |                            | POHB047005                                            |                 |                   |               |                         |
| #Ligne<br>Line#              | No. de Série / # Pièce<br>Part Number /Line Item Details<br>Job # / Ref # | Description pièce(s)                                                                                                                                          |  |                                                | CATG.<br>U/M               | Comm.<br>/Ordered                                     | Exp/<br>Shipped | Qté NC/<br>NC Qty | Qté<br>Scrap/ | À venir /<br>Back Order |
| 1                            | 650.6410<br>Rev.PB1                                                       | 650.6410<br>01 -PASSIVATION-DICHROMATE [PASSIVATION<br>BICHROMATE ]<br>TEST ONE PART FIRST<br>PASSIVATE IAW QQ-P-35C, TYPE II<br>Material 303 Stainless Steel |  |                                                | PASSIVATION<br><br>MIN-CHG | 5                                                     | 5               | 0                 | 0             | 0                       |

DAS  
32  
9-89

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### Notes Additionnelles / Additional Notes

Epaisseur réelle  
Actual Thickness
Inspecteur Qualité  
Quality Inspector
Réçu par  
Received By

Nous certifions que les pièces énumérées ci-dessus ont été traitées en conformité avec votre commande et vos spécifications et rencontrent les exigences.  
 Notre responsabilité financière et légale ne sera pas supérieure au montant de la facture issue.

We hereby certify that the parts listed above have been process in accordance with your purchase order and specifications and are in conformance with your requirements.  
 Our financial and legal responsibility will not be higher than the amount of invoice.



7/22/2020

## PURCHASE ORDER



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **POHB046739**



*Renewed*

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**Attention:** Langevin, Melanie

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** POHB046739

**PO Date:** 7/14/20

**Due Date:** 7/20/20

**Purchase Order**

**Revision:**

**Revision Date:**

**Issued By:** Guerin, Kimberley  
Phone: 613-632-5200 Ext: 298  
kguerin@dartaero.com

**Via:** Ground

**Pymt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

| Items     |     |                       |           |                  |                                                                                                                                                                                                                                                               |        |         |          |                |                        |         |                                  |                |
|-----------|-----|-----------------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|----------|----------------|------------------------|---------|----------------------------------|----------------|
| Line Item | Job | Part                  | Drawing   | Supplier Part No | Description                                                                                                                                                                                                                                                   | Status | Account | Due Date | Order Quantity | Received Quantity      | Balance | Unit Price (CAD)                 | Extended Price |
| 1         |     | M303R0.750            |           |                  | 303 Round Bar 0.750<br>: MATERIAL: AISI 303 SS<br>ROUND BAR AS PER<br>ASTM A582<br>NOTE: 304/316 NOT<br>ACCEPTABLE<br>receive ft                                                                                                                              | Firmed | -       | 7/20/20  | 24 ft          | 0 ft                   | 24 ft   | \$4.75/ft                        | \$114.00       |
|           |     |                       |           |                  |                                                                                                                                                                                                                                                               |        |         |          |                | 28 ft<br>602           |         | DAS<br>82<br>9-89<br>JUL 29 2020 |                |
| 2         |     | M6061T6B0.375X1.000   |           |                  | 6061T6 Bar .375 X 1.00<br>: MATERIAL: 6061-<br>T6/T651/T6510/T6511/T62<br>ALUMINUM BAR PER<br>QQ-A-225/8 OR AMS-QQ-<br>A-225/8 OR AMS<br>4117/4128/4115/4116 OR<br>QQ-A-200/8 OR AMS-QQ-<br>A-200/8 OR AMS 4160<br>OR ASTM B211 OR<br>ASTM B221<br>receive ft | Firmed | -       | 7/20/20  | 60 ft          | 0 ft                   | 60 ft   | \$1.33/ft                        | \$79.80        |
|           |     |                       |           |                  |                                                                                                                                                                                                                                                               |        |         |          |                | 60 ft<br>603           |         | DAS<br>82<br>9-89<br>JUL 29 2020 |                |
| 3         |     | MT-A513-T-1.000W0.120 | MT-A513-T |                  | A513 Seamless Alloy<br>Steel Round Tubing 1"dia.<br>x 0.120" Wall<br>: MATERIAL: ASTM A513<br>TYPE 5 (1020/1026)<br>SEAMLESS ALLOY<br>STEEL ROUND TUBING<br>(DOM) ASTM A513 TYPE<br>5                                                                         | Firmed | -       | 7/20/20  | 40 ft          | 0 ft                   | 40 ft   | \$2.25/ft                        | \$90.00        |
|           |     |                       |           |                  |                                                                                                                                                                                                                                                               |        |         |          |                | 46 ft<br>603           |         | DAS<br>82<br>9-89<br>JUL 29 2020 |                |
| 4         |     | M304B0.500X1.000      |           |                  | 304 Bar 0.500 X 1.000"<br>: MATERIAL: AISI 304/316<br>SS BAR OR AISI 304/316<br>SS PLATE AS PER ASTM<br>A276 OR ASTM A240<br>NOTE: AISI 303 NOT<br>ACCEPTABLE<br>receive ft                                                                                   | Firmed | -       | 7/20/20  | 12 ft          | 0 ft                   | 12 ft   | \$6.05/ft                        | \$72.60        |
|           |     |                       |           |                  |                                                                                                                                                                                                                                                               |        |         |          |                | 12 ft<br>603<br>B/D VM |         | 07/31/2020<br>DAS<br>82<br>9-89  |                |

Plex 7/22/20 1:49 PM Dart, Guerin, Kimberley



**ACIER OUELLETTE INC.**

935, Boul. du H vre  
Salaberry de Valleyfield (Qu bec) J6S 5L1  
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

**DELIVERY - CLIENT**

CO00214003

**Billed to**

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Att : GU RIN T l.: 1 (613) 632-5200 pst 298

**Instruction** F-M**Delivery Route** 5**Customer N ****Date****Delivery date****Your order N ****Processed by****Salesman****Carrier****Credit Terme**

CLI0001056

2020/07/16

**2020/07/24**

POHB046739

Denis Quenneville

DENIS QUENNEVILLE

OUELLETTE VALLEYFIELD

Net-30-Days

| Product Description                                                                                                                 | Weight | Qty   | UM       | PCS NB |          |     | Internal Use Only |   |   |   |     |
|-------------------------------------------------------------------------------------------------------------------------------------|--------|-------|----------|--------|----------|-----|-------------------|---|---|---|-----|
|                                                                                                                                     |        |       |          | CMD    | EXP      | B/O | IN                | I | S | C | OUT |
| <b>1 ROUND SS 303 3/4 (R)</b><br>RSS-34303- 5761<br>2 x<br>PO : POHB046739<br>LINE 1<br>HEAT : CH-10354                             | 36.05  | 24.00 | PI_\$CLB |        | 2x14'    |     |                   |   |   |   |     |
| <b>2 FLAT ALU 3/8 X 1 6061-T6 *</b><br>FAL-381- 2613<br>3 x 20'<br>PO : POHB046739<br>LINE 2<br>HEAT : SXA181009                    | 27.00  | 60.00 | PI_\$CLB |        | 3x20'    |     |                   |   |   |   |     |
| <b>3 TUBE MEC 1.000 OD X .120 (R)</b><br>TME-1000120- 6505<br>2 x<br>PO: POHB046739<br>LINE 3<br>HEAT : A125662                     | 45.12  | 40.00 | PI_\$CPI |        | 2x20' 3" |     |                   |   |   |   |     |
| <b>4 FLAT SS304 1/2 X 1 (R)</b><br>FSS-121- 3493<br>1 x<br>PO : POHB046739<br>LINE 4<br>HEAT : 56191166<br>TRANSFERT TRA-9155 23-07 | 20.40  | 12.00 | PI_\$CLB |        | 1x8'10"  |     |                   |   |   |   |     |
|                                                                                                                                     |        | 1.00  | UN_\$UN  |        |          |     |                   |   |   |   |     |

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JUL 29 2020

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LIME

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303R.D. 750  
DATE: AUG 04 2020

PO / BATCH NO.: P0110046739  
5290947

MATERIAL CERT REC'D: YES  
QUANTITY RECEIVED: 28 FT  
QUANTITY INSPECTED: 28 FT  
QUANTITY REJECTED: —

THICKNESS ORDERED: Ø. 750  
THICKNESS RECEIVED: Ø. 750  
SHEET SIZE ORDERED: —  
SHEET SIZE RECEIVED: —

| DESCRIPTION                                        | NCR<br>(Check<br>Y/N)                                                   | COMMENTS     |
|----------------------------------------------------|-------------------------------------------------------------------------|--------------|
| SURFACE DAMAGE                                     | Y <input checked="" type="checkbox"/>                                   |              |
| CORRECT FINISH                                     | <input checked="" type="checkbox"/> N                                   |              |
| CORROSION                                          | Y <input checked="" type="checkbox"/>                                   |              |
| CORRECT GRAIN DIRECTION                            | <input checked="" type="checkbox"/> N                                   |              |
| CORRECT MATERIAL PER M-DRAWING                     | <input checked="" type="checkbox"/> N                                   | ASTM A582    |
| CORRECT THICKNESS                                  | <input checked="" type="checkbox"/> N                                   |              |
| PHOTO REQUIRED                                     | Y <input checked="" type="checkbox"/>                                   |              |
| CORRECT REF # TO LINK CERT                         | <input checked="" type="checkbox"/> N                                   | H/T CH-10354 |
| CORRECT MATERIAL IDENTIFICATION                    | <input checked="" type="checkbox"/> N                                   |              |
| CORRECT M# ON THE MATERIAL                         | <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |              |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y <input checked="" type="checkbox"/>                                   |              |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y <input checked="" type="checkbox"/>                                   |              |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |         |
|------------------------------------------------------------------------------------|-----|-----|-------|-------|---------|
|                                                                                    | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL                                                                   |     |     |       |       |         |
| SIZE OF TEST SAMPLE                                                                |     |     |       |       |         |
| HARDNESS / DUROMETER READING                                                       |     |     |       |       |         |

*testers located in the Quality Office*

|                          |  |                                   |  |
|--------------------------|--|-----------------------------------|--|
| QC 18 INSPECTION         |  | ENGINEERING SIGNOFF (if required) |  |
| INSPECTED BY: _____      |  | SIGNED OFF BY: _____              |  |
| DATE: <u>AUG 04 2020</u> |  | DATE: _____                       |  |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



5761

RSS-34303



# CHANDAN STEEL LIMITED

(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001:2015 CERTIFICATE No. 0110001002

ADM. OFFICE: 99, SURY NAGAR, N. S. PATIL MARG, MUMBAI 400 002, INDIA

Tel.: 91-22-66290600 Fax: 91-22-66290633/34

Website: www.chandansteel.net

Email: cs@chandansteel.net

I/c. No.:

I/c. Date:

WORKS: PLOT NO. 31 TO 36, 45, 46, 48, &amp; 49/2, 142

(EXP. AREA) GIDC, UMBERGAON &amp; SURVEY NO. 102/2 &amp; 1, VILLAGE,

DEHARI, TALUKA: UMBERGAON, DIST: VALSAD, GUJARAT - 396171

GSTIN - 24AAAAC0713B1ZG

F860(824) QC 09/00/11.01.2018

## MILL TEST / INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

|                                                                                                                    |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------|----------------------------|----------------------------------------------------------|------------|----------------------|----------|-------|----|----|---|
|                                                                                                                    |                               |                   |                            | Test Certificate No. : EXP/00429-05/2019-2020            |            |                      |          |       |    |    |   |
|                                                                                                                    |                               |                   |                            | Date of Issue : 30.06.2019                               |            |                      |          |       |    |    |   |
|                                                                                                                    |                               |                   |                            | P. O. No. : MN6512                                       |            |                      |          |       |    |    |   |
|                                                                                                                    |                               |                   |                            | SC No. & Date : 18-19/0721, Dt. 29.03.2019               |            |                      |          |       |    |    |   |
|                                                                                                                    |                               |                   |                            | Invoice No. & Date : EXP/00429/2019-20 Dt. 30.06.2019    |            |                      |          |       |    |    |   |
| PRODUCT DESCRIPTION<br>STAINLESS STEEL ROUND BARS                                                                  |                               |                   |                            | LENGTH                                                   |            | Net Wt.<br>1739 LBS. |          |       |    |    |   |
|                                                                                                                    |                               |                   |                            | Ordered                                                  | Actual     |                      |          |       |    |    |   |
|                                                                                                                    |                               |                   |                            | 12' - 14'                                                | 12' - 14'  |                      |          |       |    |    |   |
| Heat No.                                                                                                           | Grade                         | Size              | Tolerance                  | Process Route                                            |            |                      |          |       |    |    |   |
| CH-10354                                                                                                           | AISI 303                      | mm/inches<br>3/4" | h9                         | Electric Melting, A.O.D. Refining,<br>Continuous Casting |            |                      |          |       |    |    |   |
| CHEMICAL COMPOSITION (Weight %)                                                                                    |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
|                                                                                                                    | C                             | Si                | Mn                         | P                                                        | S          | Cr                   | Mo       | Ni    | Cu | Ti | N |
| Min.                                                                                                               | -                             | -                 | -                          | -                                                        | 0.150      | 17.00                | -        | 8.00  | -  | -  | - |
| Max.                                                                                                               | 0.150                         | 1.00              | 2.00                       | 0.200                                                    | -          | 19.00                | -        | 10.00 | -  | -  | - |
| Results                                                                                                            | 0.049                         | 0.55              | 1.84                       | 0.031                                                    | 0.278      | 17.15                | -        | 8.06  | -  | -  | - |
| MECHANICAL PROPERTIES                                                                                              |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| Specified                                                                                                          | Yield Strength                |                   | Tensile Strength           |                                                          | Elongation | Reduction of Area    | Hardness |       |    |    |   |
| Value                                                                                                              | N/mm <sup>2</sup> /MPa(Rp0.2) |                   | N/mm <sup>2</sup> /MPa(Rm) |                                                          | %          | %                    | (HB)     |       |    |    |   |
| Min.                                                                                                               | -                             |                   | -                          |                                                          | -          | -                    | -        |       |    |    |   |
| Max.                                                                                                               | -                             |                   | -                          |                                                          | -          | -                    | 262      |       |    |    |   |
| Results                                                                                                            | 390                           |                   | 695                        |                                                          | 36         | 64                   | 215-218  |       |    |    |   |
| Remarks:                                                                                                           |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 1. Cold drawn & Centreless Ground.                                                                                 |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 2. Solution annealed at 1050 °C.                                                                                   |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 3. PMI test done 100% & found Satisfactory.                                                                        |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 4. Material has improved machinability.                                                                            |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 5. Material is free from radio-active contamination.                                                               |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 6. The material conforms to ASTM A582/582M-17 Specifications.                                                      |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 7. Location of sample - Off Centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Round. |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 8. Marking details - Company Logo, Size, Grade & Heat No.                                                          |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 9. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.                                |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| 10. No welding/weld repairs was performed on this material.                                                        |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |
| BUNDLE NO.: 20                                                                                                     |                               |                   |                            |                                                          |            |                      |          |       |    |    |   |

It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order.

B. S. RAUTELA  
MANAGER - QUALITY ASSURANCE

DAS  
82  
9-89



Heat: CH-10354



Entered: \_\_\_\_\_ Date: \_\_\_\_\_



**WORK ORDER NON-CONFORMANCE / ROUTE UPDATE**

NCR No.

Route update only

|                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|--|
| Job: 212646<br>Part No. 650.6410                                                                                                                                                                                                                                                                                                                                                         |  | DISPOSITION<br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | DEPARTMENT/PROCESS<br>Skid-tube <input type="checkbox"/><br>Machining <input type="checkbox"/><br>Large Fab <input type="checkbox"/><br>Cross tube <input type="checkbox"/><br>Small Fab <input type="checkbox"/><br>Finishing <input type="checkbox"/><br>Eng. (Non-AW) <input type="checkbox"/><br>Prod. Eng. Coord. <input type="checkbox"/><br>Rec/Store/Packaging <input type="checkbox"/><br>Engineering <input type="checkbox"/><br>Water Jet <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Quality <input checked="" type="checkbox"/> |  |                                         |  |
| Date: SEP 10 2020                                                                                                                                                                                                                                                                                                                                                                        |  | Sequence #: QC 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | QTY Affected: 5 PLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                         |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                         |  | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | MARB (QSI042)<br>DAS 51 9-89 2009.11    |  |
| DURING INSPECTION IT WAS FOUND THAT THE MATERIAL USED IS NOT TO DRAWING SPEC REQUIREMENTS.<br><br>DRAWING CALLS FOR 303 SS PER AMS-5640.<br><br>MATERIAL USED IS TO ASTM A582 AND IS CONSISTENT WITH OUR M-DRAWING.<br><br>DAS 82 9-89                                                                                                                                                   |  | 303 SS PER ASTM A582 is acceptable. Drawing will be updated to include this standard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Completed By<br>DAS 82 9-89 SEP 11 2020 |  |
| Root Cause<br>Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Presservation <input type="checkbox"/><br>Material <input checked="" type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> |  | FAULT CATEGORY<br>Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/><br>Mislabeled <input type="checkbox"/><br>Contamination <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/><br>BOM/Route <input type="checkbox"/><br>Broken/Damage/Defect <input type="checkbox"/><br>Incomplete/Unclear Instructions <input type="checkbox"/><br>Drill Holes <input type="checkbox"/><br>Fit/Function <input type="checkbox"/><br>Power Loss/Surge <input type="checkbox"/><br>Folio/Program <input type="checkbox"/><br>Grain Direction <input type="checkbox"/><br>Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set/Set-up <input type="checkbox"/><br>Positioned Wrong <input type="checkbox"/><br>Outside Tolerance <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Misread <input type="checkbox"/> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                          |  | Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                         |  |